

APPENDIX A

```
# -----
# IEEE 802.3/Ethernet Version II Packet Definition
# -----
```

Protocol

```
{
  Name "IEEE 802.3 (Ethernet V2)"
  PhysicalLayer 1
```

Header

```
{
  DA "Dest Addr" 48 HardwareAddress Data
  SA "Src Addr" 48 HardwareAddress Data
  PT "Length/Type" 16 Hex ProtocolIndicator
  {
    "Internet Protocol"      #h0800
    "ARP Request"            #h0806
    "ARP Response"           #h0835
    "AppleTalk Datagram"     #h809B
    "Novell IPX"              #h8137
    "IPS"                     #h2007
```

```
  }
}
```

```
# -----
# ARP Request Packet Definition !!!
# -----
```

Protocol

```
{
  Name "ARP Request"
```

Header

```
{
  HT "Hardware Type" 16 Hex Symbols
  {
    "Ethernet" 1
  }
  PT "Protocol Type" 16 Hex Symbols
  {
    "Internet Protocol"      #h0800
    "AppleTalk Datagram"     #h809B
```

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```
"Novell IPX"      #h8137
"IPS"            #h2007
}
HL "HW Address Length" 8 Decimal Data
5  PL "Protocol Addr Length" 8 Decimal Data
OC "Operation Code" 16 Decimal Symbols
{
  "ARP" 1
  "RARP" 2
10 }
SA "Sender HW Address" 48 HardwareAddress Data
SP "Sender IP Address" 32 DotNotation Data
TA "Target HW Address" 48 HardwareAddress Data
TP "Target IP Address" 32 DotNotation Data
15 }
}

# -----
# ARP Response Packet Definition !!!
20 # -----

Protocol
{
  Name "ARP Response"
25
  Header
  {
    HT "Hardware Type" 16 Hex Symbols
    {
30      "Ethernet" 1
    }
    PT "Protocol Type" 16 Hex Symbols
    {
35      "Internet Protocol"      #h0800
      "AppleTalk Datagram"      #h809B
      "Novell IPX"              #h8137
      "IPS"                     #h2007
    }
    HL "HW Address Length" 8 Decimal Data
    PL "Protocol Addr Length" 8 Decimal Data
    OC "Operation Code" 16 Decimal Symbols
    {
40      "ARP" 1
      "RARP" 2
45 }
    SA "Sender HW Address" 48 HardwareAddress Data
```

```

{
  Name "Internet Protocol"

  Header
5  {
    VE "Version"          4 Hex Data
    IHL "Header Length"    4 Decimal Data
    PR "Precedence"        3 Hex Symbols
    {
10   "Routine"           0
      "Priority"          1
      "Immediate"        2
      "Flash"            3
      "Flash Override"    4
15   "Internetwork Control" 6
      "Network Control"   7
    }
    DE "Delay"            1 Binary Symbols
    {
20   "Normal" 0
      "Low" 1
    }
    TP "Throughput"        1 Binary Symbols
    {
25   "Normal" 0
      "High" 1
    }
    RE "Reliability"        1 Binary Symbols
    {
30   "Normal" 0
      "High" 1
    }
    CO "Cost"              1 Binary Symbols
    {
35   "Normal" 0
      "Low" 1
    }
    MBZ "MBZ"              1 Binary Data
    TL "Total Length"       16 Decimal Data
40   ID "Identification"    16 Hex Data
    ZE "Zero"              1 Binary Data
    DF "Do not fragment"    1 Binary Data
    MF "May Fragment"       1 Binary Data
    FO "Fragment Offset"    13 Decimal Data
45   TTL "Time To Live"     8 Decimal Data
    PRO "Protocol"          8 Hex ProtocolIndicator
  }
}

```

```

    {
      "Internet Cntrl Msg Protocol" 1
      "Transmission Control Protocol" 6
      "User Datagram Protocol" 17
5    }
    HCS "Header Checksum" 16 Hex Data
    SA "Src Addr" 32 DotNotation Data
    DA "Dest Addr" 32 DotNotation Data
10  }
  }

```

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